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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/890,148	08/27/2001	Michael Zobel	Mo-6485/LeA33,061	7822
157 7:	590 04/07/2004		EXAM	INER
BAYER POLYMERS LLC			SHORT, PATRICIA A	
100 BAYER ROAD PITTSBURGH, PA 15205			ART UNIT	PAPER NUMBER
	,		1712	

DATE MAILED: 04/07/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
,	09/890,148	ZOBEL ET AL.			
Office Action Summary	Examiner	Art Unit			
	Patricia A. Short	1712			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 30 Ja					
,-	<i>,</i> —				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
 4) Claim(s) 2,3,5,7-9,12 and 13 is/are pending in 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 2,3,5,7-9,12 and 13 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	cepted or b) objected to by the drawing(s) be held in abeyance. Stition is required if the drawing(s) is a	See 37 CFR 1.85(a). Objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicative documents have been rece bu (PCT Rule 17.2(a)).	ation No ived in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:				

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2, 3, 5, 7-9, 12 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wittmann (4,937,285) in view of Pan (5,274,017) or Wittmann (4,937,285) in view of Pan (5,274,017) taken further with evidence provided by Wang (5,908,663). Wittman teaches a thermoplastic molding composition comprising aromatic polycarbonate, vinyl copolymer and graft copolymer that has good low temperature impact strength and improved fuel resistance. See example 3. The composition may contain flame retardants. See col. 11, line 40. Pan teaches the use of aluminum oxide having a colloidal particle size of less than 1 micron as a flame retardant for aromatic polycarbonate. The aluminum oxide is applied as a colloidal sol obtained from Nalco Chemical Co. See col. 1, lines 55-62 and examples. In view of Pan teaching aluminum oxide as a colloidal sol having a particle size of less than 1 micron as a flame retardant for aromatic polycarbonate, it would have been obvious to add a water containing aluminum oxide having a particle diameter of less that 1 micron to the aromatic polycarbonate composition of Wittmann in order to improve flame retardance.

Alternatively, as aqueous colloidal sols of aluminum oxide having a particle size of 20nm are commercially available from Nalco, evidence by Wang at col. 5, lines 23-27, in view of Pan teaching aluminum oxide as a colloidal sol having a particle size of less than 1 micron obtained from Nalco as a flame retardant for aromatic polycarbonate, it would have been obvious to use the commercially available aqueous colloidal sol of aluminum oxide having a particle size of 20 nm in the aromatic polycarbonate composition of Wittmann in order to improve flame retardance.

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Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

P. Short

March 11, 2004

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PATRICIA A. SHORT PRIMARY EXAMINER

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